

Flat Washers Cont.

Grade 9 SAE Flat Washer

USS and SAE washers are designed for cap screws and other threaded products. SAE washers offer a tighter screw fit, have a smaller outside diameter, and are thinner than similar size USS washers.

- Grade 9 composition.



Nominal Size	Outer Diameter	Inner Diameter	Yellow Zinc	
			Part No.	
1/4"	0.615"	0.266"	33240	
5/16"	0.678"	0.329"	33241	
3/8"	0.803"	0.391"	33242	
7/16"	0.913"	0.454"	33243	
1/2"	1.053"	0.521"	33244	
9/16"	1.170"	0.583"	33245	
5/8"	1.303"	0.641"	33246	
3/4"	1.458"	0.770"	33247	
7/8"	1.740"	0.891"	33248	
1"	1.985"	1.081"	33249	
1-1/8"	2.250"	1.250"	33250	
1-1/4"	2.500"	1.375"	33251	
1-1/2"	3.000"	1.625"	33252	

USS Thru-Hard High-Strength Washers

High-strength washers are designed for use with Grade 5 and Grade 8 cap screws, and are made from top quality, medium carbon steel. They are through hardened to a Rockwell C scale of 38-45.



Nominal Size	Outer Diameter	Inner Diameter	Plain		Yellow Zinc	
			Part No.	Part No.	Part No.	Part No.
1/4"	0.734"	0.312"	33843	33857	33857	
5/16"	0.875"	0.375"	33844	33858	33858	
3/8"	1.000"	0.438"	33845	33859	33859	
7/16"	1.250"	0.500"	33846	33860	33860	
1/2"	1.375"	0.562"	33847	33861	33861	
9/16"	1.469"	0.625"	33848	33862	33862	
5/8"	1.750"	0.688"	33849	33863	33863	
3/4"	2.000"	0.812"	33850	33864	33864	
7/8"	2.250"	0.938"	33851	33865	33865	
1"	2.500"	1.062"	33852	33866	33866	
1-1/8"	2.750"	1.250"	33853	33867	33867	
1-1/4"	3.000"	1.375"	33854	33868	33868	
1-3/8"	3.250"	1.500"	33855	33869	33869	
1-1/2"	3.500"	1.625"	33856	33870	33870	

SAE Thru-Hard High Strength Washers

High-strength washers are designed for use with Grade 5 and Grade 8 cap screws, these washer are made from top quality, medium carbon steel. They are through hardened to a Rockwell C scale of 38-45.



Nominal Size	Inner Diameter	Outer Diameter	Plain		Yellow Zinc		Galvanized	
			Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
#10	0.219"	0.500"	-	0149239				
#12	0.250"	0.563"	-	0149240				
1/4"	0.281"	0.625"	33113	33813	33168			
5/16"	0.344"	0.688"	33114	33814	33169			
3/8"	0.406"	0.812"	33115	33815	33170			
7/16"	0.469"	0.922"	33116	33816	33171			
1/2"	0.531"	1.062"	33800	33817	0136086			
9/16"	0.594"	1.156"	33801	33818	33831			
5/8"	0.656"	1.312"	33802	33819	0136087			
3/4"	0.812"	1.500"	33803	-	0136088			
3/4"	0.813"	0.812"	-	33820	-			
7/8"	0.938"	1.750"	33804	33821	-			
1"	1.062"	2.000"	33805	33822	-			
1-1/8"	1.250"	2.250"	33806	33823	33836			
1-1/4"	1.375"	2.500"	33807	33824	-			
1-3/8"	1.500"	2.750"	33808	33825	33838			
1-1/2"	1.625"	3.000"	33809	33826	-			
1-3/4"	1.875"	3.375"	33811	33828	33841			
2"	2.125"	3.750"	33812	33829	33842			

SAE Thru-Hard High-Strength Extra Thick Washer



- Grade 8 composition.

Nominal Size	Nominal Thickness	Outer Diameter	Inner Diameter	Yellow Zinc	
				Part No.	Part No.
1/4"	0.100"	5/8"	9/32"	11101302	
5/16"	0.100"	11/16"	11/32"	11101303	
3/8"	0.115"	13/16"	13/32"	11101304	
1/2"	0.172"	1-1/16"	17/32"	11101305	
5/8"	0.1495"	1-5/16"	21/32"	11101376	
3/4"	0.1825"	1-1/2"	13/16"	11101377	

Fender Washers

Low Carbon Fender Washers

Also known as Plaster washers these special sized washers have an extra-wide bearing size for screw heads to eliminate the need for patching holes. This also permits the using of smaller size screws than might otherwise be needed.



Nominal Size	Nominal Thickness	Inner Diameter	Outer Diameter	Galvanized		Zinc	
				Part No.	Part No.	Part No.	Part No.
3/16"	0.062"	0.219"	0.750"	-	-	33201	
3/16"	0.062"	0.219"	1.000"	-	-	33202	
3/16"	0.062"	0.219"	1.250"	-	-	33203	
3/16"	0.062"	0.219"	1.500"	-	-	33204	
1/4"	0.062"	0.250"	1.000"	0189944	-	-	
1/4"	0.062"	0.250"	1.250"	0189945	-	-	
1/4"	0.062"	0.250"	1.500"	0189946	-	-	
1/4"	0.062"	0.281"	1.000"	-	-	33207	
1/4"	0.062"	0.281"	1.250"	-	-	33208	
1/4"	0.062"	0.281"	1.500"	-	-	33209	
1/4"	0.062"	0.281"	1.750"	-	-	33210	
1/4"	0.062"	0.281"	2.000"	-	-	33211	
5/16"	0.062"	0.313"	1.250"	0189947	-	-	
5/16"	0.062"	0.313"	1.500"	0189948	-	-	
5/16"	0.062"	0.344"	1.000"	-	-	33213	
5/16"	0.062"	0.344"	1.250"	-	-	33214	
5/16"	0.062"	0.344"	1.500"	-	-	33215	
5/16"	0.062"	0.344"	1.750"	-	-	33216	
5/16"	0.062"	0.344"	2.000"	-	-	33217	
3/8"	0.062"	0.406"	1.250"	-	-	33219	
3/8"	0.062"	0.406"	1.500"	-	-	33220	
3/8"	0.062"	0.406"	1.625"	-	-	33223	
3/8"	0.062"	0.406"	1.750"	-	-	33221	
3/8"	0.062"	0.406"	2.000"	-	-	33222	
3/8"	0.062"	0.375"	1.500"	0189949	-	-	
3/8"	0.062"	0.375"	2.000"	0189950	-	-	
1/2"	0.062"	0.500"	2.000"	0189951	-	-	
1/2"	0.062"	0.531"	1.250"	-	-	33224	
1/2"	0.062"	0.531"	1.500"	-	-	33225	
1/2"	0.062"	0.531"	1.750"	-	-	33226	
1/2"	0.062"	0.531"	2.000"	-	-	33227	
1/2"	0.062"	0.531"	2.500"	-	-	33228	

Also look for Extra Heavy Fender Washers with a nominal thickness of 0.125".

